

CLAIMS

1. A method of making a master for manufacturing an optical disc, comprising:

an exposing step of irradiating an inorganic resist layer formed on a substrate with recording laser light modulated by an information signal corresponding to an information signal of an information concave and convex pattern formed on said optical disc to form an exposed pattern corresponding to said information concave and convex pattern of said optical disc, and

after the preceding step a developing step of performing development processing on said inorganic resist layer to form a concave and convex pattern corresponding to said information concave and convex pattern of said inorganic resist layer, wherein

in said exposing process, after a trial exposure is performed on a non-recording area of said resist layer, evaluation laser light is irradiated on the exposed portion to evaluate a recording signal characteristic of said resist layer from the reflected light, and based on an evaluation result an adjustment of an exposure focusing position is performed to determine an optimum focus position of recording laser light which is later performed.

2. The method of making a master for manufacturing an optical disc according to claim 1, wherein said inorganic resist layer is a resist layer containing an incomplete oxide of transition metals.

3. The method of making a master for manufacturing an optical disc according to claim 1, wherein an area irradiated with said evaluation laser light is an area other than an area irradiated with said recording laser light.

4. The method of making a master for manufacturing an optical disc according to claim 2, wherein an area irradiated with said evaluation laser light is an area other than an area irradiated with said recording laser light.

5. A method of manufacturing an optical disc comprising the steps of: making a master for manufacturing the optical disc, making a stamper for manufacturing the optical disc from said master through transcription, manufacturing an optical disc substrate using said stamper through transcription, forming a reflective film on the optical disc substrate, and forming a protective film, wherein,

the step of making said master includes: an exposing step of irradiating an inorganic resist layer formed on the substrate with recording laser light modulated by an information signal corresponding to an information signal of an information concave and convex pattern formed on said optical disc to form an exposed pattern corresponding to said information concave and convex pattern on said optical disc and

after the preceding step a step of performing development processing on said inorganic resist layer to form a concave and convex pattern corresponding to said

information concave and convex pattern of said inorganic resist layer; and

in said exposing step, after a trial exposure is performed on a non-recording area of said resist layer, evaluation laser light is irradiated on the exposed portion to evaluate a recording signal characteristic of said resist layer from the reflected light, and based on an evaluation result an adjustment of exposure focusing position is performed to determine an optimum focus position of recording laser light which is later performed.

6. The method of manufacturing the optical disc according to claim 5, wherein said inorganic resist layer is a resist layer containing an incomplete oxide of transition metals.

7. The method of manufacturing the optical disc according to claim 5, wherein an area irradiated with said evaluation laser light is an area other than an area irradiated with said recording laser light.

8. The method of manufacturing the optical disc according to claim 6, wherein an area irradiated with said evaluation laser light is an area other than an area irradiated with said recording laser light.